

# Converting Colors - WCAG Matrix

Web Content Accessibility Guidelines (WCAG) 2.0 - Color Matrix.

Hex(855F9F) Hex(A66BCF) Hex(9F5F9A) Hex(4C474F) Hex(55008F) Hex(09000F)

|             | Hex(855F9F)                         | Hex(A66BCF)                                             | Hex(9F5F9A)                         | Hex(4C474F)                        | Hex(55008F)                         | Hex(09000F)                                             |
|-------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(855F9F) |                                     | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 4.06<br>AA 18pt <sup>2</sup>                     |
| Hex(A66BCF) | Ratio: 1.36<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 2.42<br>Failed <sup>5</sup> | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(9F5F9A) | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 1.23<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 2.57<br>Failed <sup>5</sup>  | Ratio: 4.49<br>AA 18pt <sup>2</sup>                     |
| Hex(4C474F) | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 2.42<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>  |                                    | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 2.28<br>Failed <sup>5</sup>                      |
| Hex(55008F) | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 3.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.57<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup> |                                     | Ratio: 1.75<br>Failed <sup>5</sup>                      |
| Hex(09000F) | Ratio: 4.06<br>AA 18pt <sup>2</sup> | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.49<br>AA 18pt <sup>2</sup> | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup>  |                                                         |

Details can be found at <https://www.w3.org/TR/WCAG20/>.

<sup>1</sup> AA

AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>2</sup> AA 18pt

AA level for large text above 18pt.

<sup>3</sup> AAA

AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>4</sup> AAA 18pt

AAA level for large text above 18pt.

<sup>5</sup> Failed

Fails to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.

<sup>6</sup> Passed

Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.

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